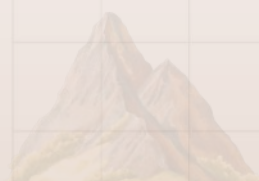




# Interior Of The Earth

- Earth is divided mechanically into lithosphere, asthenosphere, mesospheric mantle, outer core and inner core.
- Compositionally, Earth is divided into crust, mantle and core.
- Lithosphere includes crust and uppermost mantle.
- Oceanic crust is about 5 Km thick; continental crust is around 30 Km thick.
- Continental crust may be 70-100 Km thick in the Himalayan region.
- SIAL contains silica and aluminium; SIMA contains silica, iron and magnesium.
- Mantle extends up to about 2900 Km depth.
- Core is mainly made of iron and nickel, also called NiFe.
- Outer core is liquid; inner core is solid.
- Earth's magnetism is mainly linked with electric currents in the liquid outer core.
- Mohorovicic Discontinuity lies between crust and mantle.
- Gutenberg Discontinuity lies between mantle and core.
- Lehmann Discontinuity lies between outer core and inner core.
- Seismic waves are the most important indirect source for studying Earth's interior.






- P-waves pass through solids, liquids and gases.
- S-waves pass only through solids and do not pass through liquids.
- S-wave shadow zone proves that the outer core is liquid.
- Earthquake focus is the point inside Earth where energy is released.
- Epicentre is the point on the surface directly above the focus.
- Richter Scale measures earthquake magnitude.
- Mercalli Scale measures earthquake intensity.
- Tsunami means harbour wave and may be caused by undersea earthquakes.
- Magma is molten material below the surface; lava is magma on the surface.
- Active volcanoes erupt frequently or have erupted recently.
- Dormant volcanoes may erupt again.
- Extinct volcanoes are not expected to erupt again.
- Shield volcanoes have gentle slopes and basaltic lava.
- Composite volcanoes are explosive and also called stratovolcanoes.
- Dykes are vertical intrusive bodies; sills are horizontal intrusive bodies.




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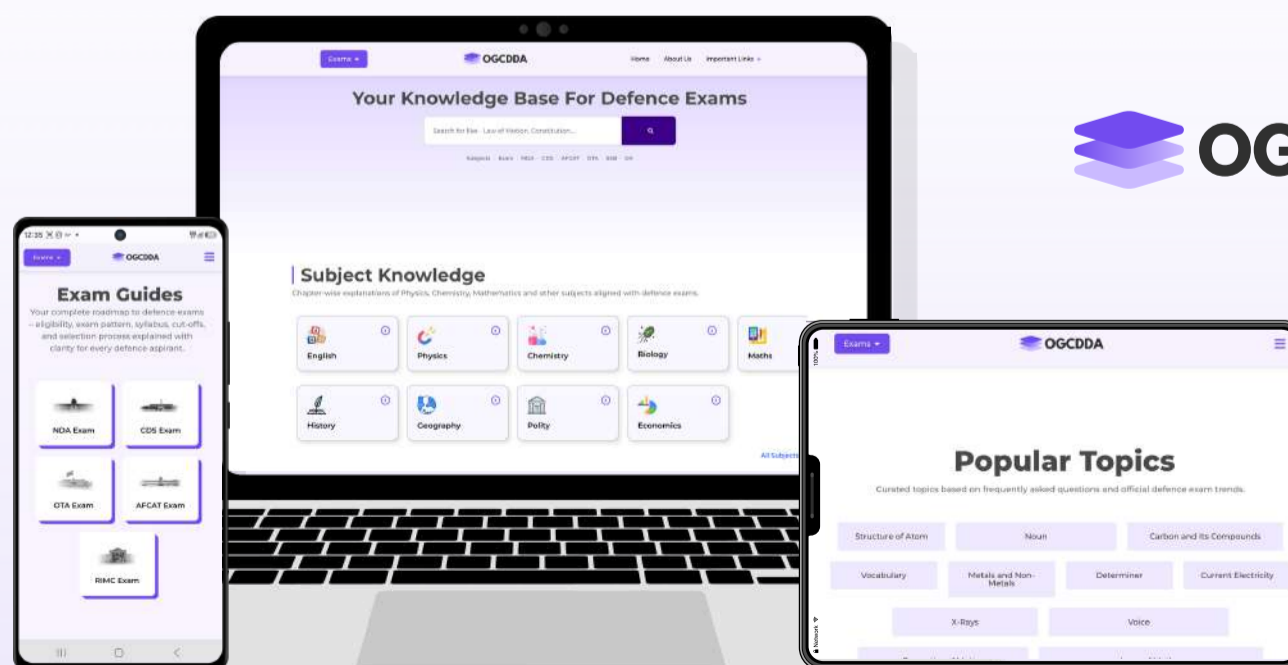
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